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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,179	07/17/2006	Cornelis C.A.M. Van Zon	US040086	2745	
24737 7590 98/25/2010 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAM	EXAMINER	
			ANYIKIRE, CHIKAODILI E		
BRIARCLIFF	MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2621		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)					
10/586,179	VAN ZON ET AL.					
Examiner	Art Unit					
CHIKAODILI E. ANYIKIRE	2621					

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be autisation under the provisions of 37 CPR 1145(8). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If XO period for reply is specified above, the neximent addated prince due to provide the provision of 37 CPR 1145(8). In no event, however, may a reply be timely filed or this communication.  If XO period for reply is specified above, the neximen addated prince which applied the communication to be cover addated. SIXE (5) SIXE (3) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patter them adjustment. See 37 CPR 1.740F.				
Status				
Responsive to communication(s) filed on 17 July 2006.  2a)    This action is FINAL.    2b)    This action is non-final.  3)    Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims				
4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-20 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.				
Application Papers				
9) ☐ The specification is objected to by the Examiner.  10 ☑ The drawing(s) filed on 17 July 2006 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b ☐ Some * c)☐ None of:  1.☐ Certified copies of the priority documents have been received.  2.☐ Certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				

Attachment	

- Notice of References Cited (PTO-892)
   Notice of Draftsperson's Patent Drawing Review (PTO-948)
   Information Disclosure Statement(c) (FTO/S8/CC)
- Paper No(s)/Mail Date

- 4) Interview Summary (PTO-413)
- Paper No(s)/Mail Date.

  5) Notice of Informal Patent Application.
- 6) Other: \_\_\_\_\_.

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## DETAILED ACTION

1. This application is responsive to application number (10/586179) filed on July 17,

2006. Claims 1-20 are pending and have been examined.

#### Information Disclosure Statement

Acknowledgement is made of applicant's information disclosure statement.

## Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-20 rejected under 35 U.S.C. 102(b) as being anticipated by Dantwala (US 2002/0075959).

As per claim 1, Dantwala discloses a video image display system, comprising:

a motion estimation circuit (Figure 1 element 130) adapted to generate motion vectors as a function of an incoming video signal and stored video data (paragraph 0045]; it is known in the art that a motion vector is produced from a current input frame and a stored reference frame); a front-end motion compensation circuit (Figure 1 element 170) adapted to generate a processed video signal as a function of the

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incoming video signal, the motion vectors and stored video data (paragraph [0046]); and a video signal conversion circuit (Figure 1 element 180) adapted to generate a display signal for a specific video display as a function of the processed video signal and the motion vectors (paragraph [0059]).

As per claim 2, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit includes the motion estimation circuit (Figure 1 element 130; paragraph [0045]).

As per claim 3, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit is an upconversion circuit (Figure 1 element 180; paragraph [0059]).

As per **claim 4**, Dantwala discloses the system of claim 3, wherein the upconversion circuit is adapted to convert the incoming video signal to a signal having a higher frequency and to use the motion vectors to recreate motion phases of the output video at each temporal instant (paragraph [0059] - [0061]).

As per claim 5, The system of claim 1, wherein the front-end circuit includes a deinterlacing circuit.

As per claim 6, Dantwala discloses the system of claim 1, wherein the video signal conversion circuit includes a motion vector refinement circuit adapted to process the motion vectors for use by the video signal conversion circuit (paragraph [0046] and [0059]).

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As per **claim 7**, Dantwala discloses the system of claim 6, wherein the motion vector refinement circuit is adapted to modify the motion vectors as a function of at least one of:

the resolution and the temporal phase of a video display for which the video signal conversion circuit generates the display signal (paragraph [0046] and [0059]; Dantwala generates motion vectors based on resolution).

As per claim 8, Dantwala discloses the system of claim 1, further comprising a memory adapted to store information for use by the motion front-end motion compensation circuit to store processing information for processing the incoming video signal (paragraph [0021]).

As per **claim 9**, Dantwala discloses the system of claim 1, further comprising a memory adapted to store information for use by the video signal conversion circuit to store processing information for generating the display signal (paragraph [0021]).

As per claim 10, Dantwala discloses the system of claim 1, wherein the video signal conversion circuit is adapted to receive a corresponding video signal from the front-end motion compensation circuit and to process the corresponding video signal by estimating spatio-temporal characteristics of components of the video signal relative to the specific video display (paragraph [0059]).

As per **claim 11**, Dantwala discloses the system of claim 10, further including means for reusing motion estimation data (paragraph [0059]).

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As per claim 12, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit includes computation means for implementing motion compensation functions (paragraph [0046]).

As per claim 13, Dantwala discloses the system of claim 12, wherein the video signal conversion circuit is adapted to receive a corresponding video signal from the front-end motion compensation circuit and to process the corresponding video signal by estimating spatio-temporal characteristics of components of the video signal relative to the specific video display (paragraph [0059]).

As per claim 14, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit includes computation means for implementing high temporal refresh rate functions (paragraph [0059]).

As per claim 15, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit includes computation means for implementing high resolution functions for color sequential displays (paragraph [0059]).

As per claim 16, Dantwala discloses the system of claim 1, wherein the front-end motion compensation circuit includes computation means for implementing high temporal refresh rate functions and for implementing the high resolution functions for color sequential displays (paragraph [0059]).

As per claim 17, Dantwala discloses the system of claim 16, wherein the video signal conversion circuit is adapted to receive a corresponding video signal from the front-end motion compensation circuit and to process the corresponding video signal by

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calculating spatio-temporal characteristics of components of the video signal relative to the specific video display (paragraph [0059]).

Regarding claim 18, arguments analogous to those presented for claim 1 are applicable for claim 18.

Regarding **claim 19**, arguments analogous to those presented for claim 1 are applicable for claim 19.

Regarding claim 20, arguments analogous to those represented for claim 1 are applicable for claim 20.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHIKAODILI E. ANYIKIRE whose telephone number is (571)270-1445. The examiner can normally be reached on Monday to Friday, 7:30 am to 5 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272 - 7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/ Supervisory Patent Examiner, Art Unit 2621

/Chikaodili Anyikire/ Patent Examiner AU 2621